

Title (en)
PROCESS FOR THE PRODUCTION OF TRANSPARENT, THERMOPLASTIC POLYURETHANE WITH HIGH MECHANICAL STRENGTH AND HARDNESS

Title (de)
VERFAHREN ZUR HERSTELLUNG VON TRANSPARENTEM, THERMOPLASTISCHEM POLYURETHAN MIT HOHER MECHANISCHER FESTIGKEIT UND HÄRTE

Title (fr)
PROCÉDÉ DE FABRICATION DE POLYURÉTHANE THERMOPLASTIQUE TRANSPARENT AYANT UNE SOLIDITÉ MÉCANIQUE ET UNE DURETÉ ÉLEVÉES

Publication
EP 3066141 B1 20201223 (DE)

Application
EP 14793495 A 20141028

Priority
• EP 13191374 A 20131104
• EP 2014073078 W 20141028
• EP 14793495 A 20141028

Abstract (en)
[origin: WO2015063062A1] The invention relates to thermoplastic polyurethanes that are or can be obtained by reacting at least one aliphatic polyisocyanate; at least one chain extender; and at least one polyol composition, wherein the polyol composition comprises a polyol selected from the group comprising polyetherols and at least one bisphenol derivative selected from the group comprising bisphenol A derivatives having a molecular weight Mw > 315 g/mol and bisphenol S derivatives having a molecular weight Mw > 315 g/mol, wherein at least one of the OH groups of the bisphenol derivative is alkoxylated. The invention further relates to methods for producing such thermoplastic polyurethanes and to the use of a thermoplastic polyurethane according to the invention to produce extrusion products, films, and molded bodies.

IPC 8 full level
C08G 18/48 (2006.01); **C08G 18/08** (2006.01); **C08G 18/22** (2006.01); **C08G 18/24** (2006.01); **C08G 18/66** (2006.01); **C08G 18/75** (2006.01); **C09D 175/04** (2006.01)

CPC (source: EP KR US)
C08G 18/0895 (2013.01 - EP KR US); **C08G 18/227** (2013.01 - EP KR US); **C08G 18/244** (2013.01 - EP KR US); **C08G 18/4018** (2013.01 - US); **C08G 18/4808** (2013.01 - EP KR US); **C08G 18/4816** (2013.01 - US); **C08G 18/4829** (2013.01 - US); **C08G 18/4879** (2013.01 - EP KR US); **C08G 18/6674** (2013.01 - EP KR US); **C08G 18/758** (2013.01 - EP KR US); **C08L 75/04** (2013.01 - KR US); **C09D 175/04** (2013.01 - EP US); **C08L 2201/10** (2013.01 - KR US)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2015063062 A1 20150507; CN 106103522 A 20161109; CN 106103522 B 20210817; EP 3066141 A1 20160914; EP 3066141 B1 20201223; ES 2860948 T3 20211005; JP 2016538384 A 20161208; JP 2020007556 A 20200116; JP 2021138955 A 20210916; KR 102294776 B1 20210827; KR 20160083063 A 20160711; US 10611872 B2 20200407; US 2016304659 A1 20161020

DOCDB simple family (application)
EP 2014073078 W 20141028; CN 201480066023 A 20141028; EP 14793495 A 20141028; ES 14793495 T 20141028; JP 2016528127 A 20141028; JP 2019148818 A 20190814; JP 2021080998 A 20210512; KR 20167014813 A 20141028; US 201415034116 A 20141028